

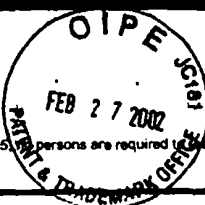
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Substitute for form 1449APTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	09/836,746
Filing Date	April 17, 2001
First Named Inventor	Andrew Patron
Group Art Unit	1845 59
Examiner Name	Unknown
Attorney Docket Number	41305-253159

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
TJW	1	4,591,570		Chang	5/27/1986	
	2	4,873,313		Crawford, et al.	10/10/1989	
	3	5,512,131		Kumar, et al.	4/30/1996	
	4	5,629,213		Kornguth, et al.	5/13/1997	
	5	5,731,152		Maracas, et al.	3/24/1998	
	6	5,733,743		Johnson, et al.	3/31/1998	
	7	5,837,832		Chee, et al.	11/17/1998	
	8	5,858,657		Winter, et al.	1/12/1999	
	9	5,871,907		Winter, et al.	2/16/1999	
	10	5,969,108		McCafferty, et al.	10/19/1999	
	11	5,977,322		Marks, et al.	11/2/1999	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ² (if known)				
TJW	12		WO 00/04382		Zyomyx, Inc.	1/27/2000		✓
	13		WO 00/04389		Zyomyx, Inc.	1/27/2000		✓
	14		WO 00/04390		Zyomyx, Inc.	1/27/2000		✓
	15		WO 00/47996		Illumina, Inc.	8/17/2000		✓
	16		WO 00/71992		Illumina, Inc.	11/30/2000		✓
	17		WO 00/71995		Illumina, Inc.	11/30/2000		✓
	18		WO 01/18524		Illumina, Inc.	3/15/2001		✓
	19		WO 90/02809		Protein Engineering Corporation	3/22/1990		✓
	20		WO 98/50773		University of Minnesota	11/12/1998		✓
	21		WO 98/59362		Ciphergen Biosystems, Inc.	12/30/1998		✓
	22		WO 98/43086		Kimberly-Clark Worldwide, Inc.	10/1/1998		✓
✓	23		WO 99/40434		Invitrogen	8/12/1999		✓

Examiner Signature

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	09/836,746
Filing Date	April 17, 2001
First Named Inventor	Andrew Patron
Group Art Unit	1645 35
Examiner Name	Unknown
Attorney Docket Number	41305-253159

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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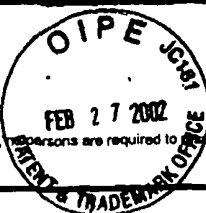
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

Complete if Known

Application Number	09/836,746
Filing Date	April 17, 2001
First Named Inventor	Andrew Patron
Group Art Unit	1645 55
Examiner Name	Unknown
Attorney Docket Number	41305-253159

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
+	24	Ausubel, F.M. et al., <i>Short Protocols in Molecular Biology</i> , Chapter 9, 2 nd Edition, (1992)	✓
	25	Barbas, C.F. et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site", <i>Proc. Natl. Acad. Sci., USA</i> , 88:7978-82 (1991)	✓
	26	de Bruin, R. et al., "Selection of high-affinity phage antibodies from phage display libraries", <i>Nature Biotechnology</i> , 17:397-399 (April 1999)	✓
	27	Everall, N.J. et al., "Performance Analysis of an Integrated Process Raman Analyzer Using a Multiplexed Transmission Holographic Grating, CCD Detection, and Confocal Fiber-Optic Sampling", <i>Appl. Spectrosc.</i> 49:610-615 (1995)	✓
	28	Hamilton, David P. & Antonio Regalado, "In Hot Pursuit of the Proteome", <i>Wall Street Journal</i> (April 5, 2001)	✓
	29	Hoaglund-Hyzer C.S., et al., "Mobility Labeling for Parallel CID of Ion Mixtures", <i>Anal. Chem.</i> , 72:2737-40 (2000)	✓
	30	Ideus, S. et al., "Conformational change of electrosprayed cytochrome c studied by laser-induced fluorescence", <i>Chemical Physics Letters</i> , 337:79-84, (2001)	✓
	31	Kubarych, K. "Ultrafast Spectroscopy", at http://phys.chem.utoronto.ca/kjk/research.html (2001)	✓
	32	Luckow, V.A., and Max D. Summers, "Trends in the Development of Baculovirus Expression Vectors", <i>BioTechnology</i> 6:47-55 (1988)	✓
	33	Marks, J.D. et al., "Molecular Evolution of Proteins on Filamentous Phage" <i>J. Biol. Chem.</i> , 267:16007-16010 (1992)	✓
	34	Pamley, S.F. and G.P. Smith, et al., "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes", <i>Gene</i> , 73:305-318 (1988)	✓
	35	Radeke, H.S., et al., "Interactions of (-)-lilimaquinone with methylation enzymes: implications for vesicular-mediated secretion", <i>Chem. Biol.</i> , 6, 639-647 (1999)	✓
	36	Robertsson, G., "Simple and Efficient Multivariate Calibration of Nonlinear Absorption Spectroscopic Data", <i>Appl. Spectrosc.</i> , 55:98-103 (2001).	✓
	37	Rotman, D., "Nanotech Goes to Work", <i>Technology Review</i> at www.techreview.com/magazine/jan01/rotman.asp (January 2001)	✓
	38	Sambrook, J. et al., <i>Current Protocols: Molecular Cloning</i> , Chapter 16, Cold Spring Harbor Laboratory Press (2000)	✓
	39	Sche, P.P. et al., "Display cloning: functional identification of natural product receptors using cDNA-phage display", <i>Chem. & Biol.</i> , 6, 707-716 (1999)	✓
	40	Scott, JK and G.P. Smith, et al., "Searching for peptide ligands with an epitope library", <i>Science</i> 249:386-90 (1990)	✓
	41	Scultz, G., "Integrated Monolithic Microfabricated Electrospray Device" available at www.cnf.cornell.edu (2001)	✓
	42	Soderlind, E. et al., "Phage Display Technology in Antibody Engineering: Design of Phagemid Vectors and in vitro Maturation Systems", <i>Immunol. Rev.</i> , 130:109-124 (1992)	✓
	43	Talbot, D., "Upstream: Computing's New Spin", at www.techreview.com/magazine/jan01/upstream.asp (January 2001)	✓
	44	"Visualize: DNA Chips", <i>Technology Review</i> at www.techreview.com/magazine/jan01/visualize.asp (January 2001)	✓
✓	45	Winter, G. et al., "Making antibodies By Phage Display Technology", <i>Annu. Rev. Immunol.</i> , 12:433-55 (1994)	✓

Examiner
Signature

T. Wessing

Date
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11/22/03

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